

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-25. Cancelled

26. (New) A film comprising a blend of a thermoplastic polymer and nanoparticles, wherein said nanoparticles have a diameter of less than about 500 nanometers and are modified with a metal ion to form modified nanoparticles.

27. (New) The film of claim 26 further comprising a filler blended with said thermoplastic polymer and nanoparticles.

28. (New) The film of claim 27, wherein the filler comprises at least about 35% by weight of said film.

29. (New) The film of claim 27, wherein the filler comprises from about 45% to about 65% by weight of said film.

30. (New) The film of claim 27, wherein the filler has an average particle size of about 0.1 microns to about 10 microns.

31. (New) The film of claim 27, wherein the filler is coated with a fatty acid.

32. (New) The film of claim 27, wherein the filler is selected from the group consisting of calcium carbonate, clays, silica, alumina, barium sulfate, talc, magnesium sulfate, titanium dioxide, zeolites, aluminum sulfate, cellulose powders, diatomaceous earth, gypsum, magnesium sulfate, magnesium carbonate, barium carbonate, kaolin, mica, carbon, magnesium oxide, aluminum hydroxide, pulp powder, wood powder, cellulose derivatives, polymeric particles, chitin, chitin derivatives, and combinations thereof.

33. (New) The film of claim 27, wherein the filler comprises calcium carbonate.
34. (New) The film of claim 26, wherein said modified nanoparticles further comprise a negative first Zeta Potential from about -1 to about -50 millivolts.
35. (New) The film of claim 34, wherein said negative first Zeta Potential is from about -1 to -20 millivolts.
36. (New) The film of claim 34, wherein said modified nanoparticles further comprise a second Zeta Potential, said second Zeta Potential being at least about 5.0 millivolts higher than said negative first Zeta Potential.
37. (New) The film of claim 26, wherein said modified nanoparticles further comprise a positive first Zeta Potential from about 1 to about 70 millivolts.
38. (New) The film of claim 26, wherein said nanoparticles are selected from the group consisting of silica, alumina, titanium dioxide, gold, zinc oxide, polystyrene, and combinations thereof.
39. (New) The film of claim 38, wherein said nanoparticles are silica nanoparticles.
40. (New) The film of claim 26, wherein said metal ion is selected from the group consisting of copper ion, silver ion, gold ion, permanganate ion, chlorite ion, persulfate ion, iron ion, and combinations thereof.
41. (New) The film of claim 40, wherein said metal ion is copper ion.
42. (New) The film of claim 26, wherein said film has a WVTR of at least 300 g/m²/day.
43. (New) The film of claim 26, wherein said film has a WVTR of at least 500 g/m²/day.

44. (New) The film of claim 26, wherein said film has a WVTR of at least about 1500 g/m²/day.

45. (New) The film of claim 26, wherein said film has a WVTR of at least about 3000 g/m²/day.

46. (New) The film of claim 26, wherein the surface area of said nanoparticles is at least about 100 square meters/gram.

47. (New) The film of claim 26, wherein the surface area of said nanoparticles is at least about 200 square meters/gram.

48. (New) The film of claim 26, wherein the surface area of said nanoparticles is at least about 500 square meters/gram.

49. (New) The film of claim 26, wherein the thermoplastic polymer is a polyolefin.

50. (New) A film comprising a blend of a thermoplastic polymer and silica nanoparticles, wherein said silica nanoparticles have a diameter of less than about 500 nanometers and are modified with a copper ion to form copper modified silica nanoparticles, said copper modified silica nanoparticles further comprising a negative first Zeta Potential of about -1 to about -20 millivolts.

51. (New) A personal care product comprising an outer cover, said outer cover comprising a film and having a WVTR greater than about 500 g/m²/day, said film comprising a blend of a thermoplastic polymer and nanoparticles, wherein said nanoparticles have a diameter of less than about 500 nanometers and are modified with a metal ion to form modified nanoparticles.

52. (New) The personal care product of claim 51, wherein said film further comprises a filler blended with said thermoplastic polymer and said nanoparticles.

53. (New) The personal care product of claim 51 further comprising a nonwoven fabric laminated to said film.

54. (New) The personal care product of claim 51 wherein the personal care product is a diaper.

55. (New) The personal care product of claim 51 wherein the personal care product is an adult incontinence product.